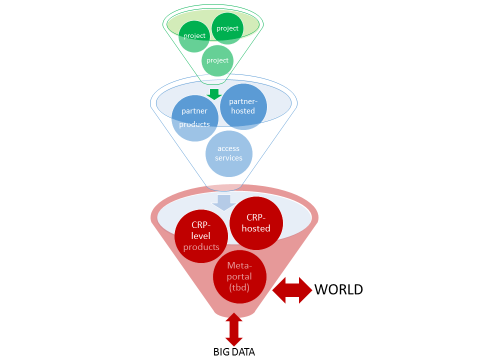
# Livestock CRP – Strategic Investment Fund

# Start-up investment in Open Access (OA/OD) and Data Management (DM)

*Across the CRP, open access is normally a responsibility of CRP strategic partners. They are expected to have their own tools, workflows, legal support, systems and platforms as well as expertise, institutional buy-in and budget to make it happen. The CRP judiciously exploits and extends the open content they generate by adding value, aggregating and synthesizing across partners and amplifying the results (CRP proposal annex 3.8).*

## CRP Data, Data Product and Information Product Repositories

As set out in its proposal, LIVESTOCK intends to be fully compliant with the CGIAR and partner open-access policies in terms of data, data products and information products; CGIAR policy requires full compliance by end of 2018. To achieve this, the Program will focus key resources into the systems and processes for making data, data products and information products open-access. It will also invest in value-adding tools to help make the various products accessible and, where possible, aggregate and transform them to guide further analysis, communication and re-use.

The default is that each strategic CRP partner (ILRI, ICARDA, CIAT, SLU, GIZ) takes responsibility for its own products, archiving and curating them to agreed standards (such as CGCore metadata) in robust and inter-operable open repositories and systems. This approach has been used successfully with information products and some data.

All products have, at least, meta-data entries in global ‘LIVESTOCK’ CRP meta-repositories.

Where a partner is unable to maintain its own repository, or prefers the lead centre to host, the data and products will be hosted centrally on ILRI repositories.

For cross-partner and CRP-level products, the ILRI repositories (as lead center) will be used.

Current status of open-data and data product repositories for CRP partners:

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| --- | --- | --- | --- | --- | --- |
|  | **Products (not including global repositories)** | | | | **Information products** |
| **Partner** | **Datasets** | **Tools** | **Software/Code** | **Spatial** |  |
| ILRI | [CKAN](http://data.ilri.org/portal/) | [CKAN](http://data.ilri.org/tools/) | [Github](https://github.com/ilri) | Geoportal - outdated | CGSpace |
| ICARDA | [Dataverse](https://dataverse.harvard.edu/dataverse.xhtml?alias=cacprogram) | [Geo-agro](http://geoagro.icarda.org/) | [Dataverse](https://dataverse.harvard.edu/dataverse.xhtml?alias=cacprogram) (final) | [Geo-agro](http://geoagro.icarda.org/) | Own dspace? |
| CIAT | [Dataverse](https://dataverse.harvard.edu/dataverse/CIAT) | [CGSpace](http://ciat.cgiar.org/tools/) |  | [Dataverse](https://dataverse.harvard.edu/dataverse/CIAT) | CGSpace |
| SLU | SLU-data generated under the CRP umbrella will be stored in ILRI repositories as these conform to the SLU standards: <http://www.slu.se/en/site/library/publish-and-analyse/open-access/> | | | |  |
| GIZ |  | | | |  |

The strategic investment in 2017 is proposed to ensure the Program has stable, accessible (to all partners for uploading) and up-to-date CRP and partner-level ‘institutional’ platforms for these products (note that some flagships, such as Livestock Genetics, already contribute some of their data to specialized access services). Activities will include:

CRP-level

* Create an initial inventory of databases as well as information and data-access platforms and repositories used across the LIVESTOCK partners.
* Create mechanisms for LIVESTOCK to use the ILRI data portal and CGSpace to make CRP-level data as well as data and information products openly accessible.

ILRI

* Customise and upgrade (adding usage statistics, map search function, automating confidential data requests etc.) the ILRI Data Portal
* Transfer spatial geoportal to a Spatial Products Portal (CKAN) – or integration into Data Portal
* Improve the Tools Portal in terms of usability, linkages to tools, meta-data upgrade, and linking information products from CGSpace
* Add ‘visual’ search and reporting functions to CGSpace

ICARDA

* Deploy Dataverse installation linked to internal MEL System with metadata related to CRP LIVESTOCK to ensure interrelated filtering systems; enhance map search function.
* Establish API protocols with Geo-agro to enhance data sharing and use of current geo-spatial tools.
* Finalize smart-survey tool for field data collection based on ODK with web-based workflow and approvals.

CIAT

* To be discussed – although planned for ILRI to be main repository for CIAT data and data products.

SLU

* ILRI to be main repository for SLU-generated data.

## Data open access support (to CRP/projects/partners)

Flagships and associated W3/bilateral projects have been encouraged to include budget for data open-access support, and are doing in most cases. In the first year, LIVESTOCK will provide clear guidance on how to utilize these funds and use pilot examples in each flagship across the CRP partners to translate data from the field or other databases to be open access. SIF investment in this component will resource activities including:

* Documentation, guidance and awareness activities for all partners on what and how to make data and data products open-access (working together with CRP partners to develop). These activities will also cover wider issues of IP and associated open access provisions for information products and other resources.
* Direct support to flagships by ILRI and other partners for example datasets to translate to open-access. This may include supporting sub-contracted partners.
* Curation of current databases to support baseline and targeting.

## Integration of data across CRP activities to facilitate advanced analysis and meta-analyses

A key component of enhancing research quality and learning across the CRP is the ability to carry out meta-analysis across CRP activities. In different contexts, this can provide cross-site, cross-intervention and/or cross-flagship learning and inform the design and implementation of activities. Integration of the data is necessary to enable these meta-analyses and in 2017, the Program will evaluate its ability to do this with a couple of key activities:

* Establish database(s) for Change Monitoring (Theory of Change) using experiences from the Livestock and Fish CRP
* Integration of data for CRP country characterization for foresight and targeting / baselining (value-chain / system level; not household)

## Open access journal payments at CRP level

LIVESTOCK intends to make all information products open-access, including journal publications. Although much progress has been made to both budgeting for open-access (in journals which charge for this) and in the promotion of open-access journals (including the BMGF initiative) the Program will maintain a small resource to support the open-access of key strategic journal publications.

## Budget

|  |  |
| --- | --- |
| **Description (Breakdown)** | **SIF (USD)** |
| **CRP data, data product and information product repositories** | **36,000** |
| CRP-level - Inventory of databases, information and data-access platforms and repositories; mechanisms for LIVESTOCK to use the ILRI data portal and CGSpace (Consultant) | 4,000 |
| ILRI - Customization and upgrading ILRI data portal (Consultant) | 2,500 |
| ILRI - Transfer of spatial geoportal to a Spatial Products Portal (CKAN) (Consultant) | 8,000 |
| ILRI - Improvements to Tools Portal (Consultant) | 2,500 |
| ILRI - ‘Visual’ search and reporting functions to CGSpace (Consultant) | 2,000 |
| ICARDA – Dataverse development and linkages to MEL systems | 4,000 |
| ICARDA - Establish API protocols with Geo-agro to enhance data sharing and use of current geo-spatial tools. | 2,000 |
| ICARDA - Finalize smart-survey tool for field data collection based on ODK with web-based workflow and approvals. | 3,000 |
| CIAT activities – to be confirmed | 8,000 |
| **Data open access support (to CRP/projects/partners)** | **28,000** |
| Documentation, guidance and awareness (partner staff or consultant; utilizing Phase 1 tools) | 12,000 |
| Direct support to flagships for example datasets (partner staff) – 1 per flagship x partner (@ $1,500) | 19,500 |
| **Integration of data across CRP activities to facilitate advanced analysis and meta-analyses** | **26,000** |
| Setting-up database(s) for Change Monitoring (Consultant) | 10,000 |
| Curation of current databases to support baseline and targeting (partner staff) | 6,000 |
| Integration of data for CRP country characterization for foresight and targeting / baselining (ILRI) | 10,000 |
| **Open access journal payments at CRP level (not funded by projects, bilaterals)** | **20,000** |
| @ $2,500 per publication x 8 | 20,000 |
|  |  |
| **Total SIF request** | **$110,000** |

Note we will be requesting additional resources for some activities defined above and new activities from the Big Data Platform (Module 1) where the focus will be more on CGIAR-level driven plans for a data / product ‘Harvester’. New activities may include:

* Create a global LIVESTOCK data and data products meta-repository/portal across the five strategic partners. This ‘may’ be a subset within the CGIAR big data harvester or standalone. It will have advanced, interactive, ‘visual’ user-oriented functionalities
* Define workflows by which significant existing data resources in the inventory (above) can best be made globally accessible through LIVESTOCK or other CGIAR data and information harvesting and aggregation systems.
* Expose content of strategic partner repositories to proposed CGIAR big data harvester